FIG.1

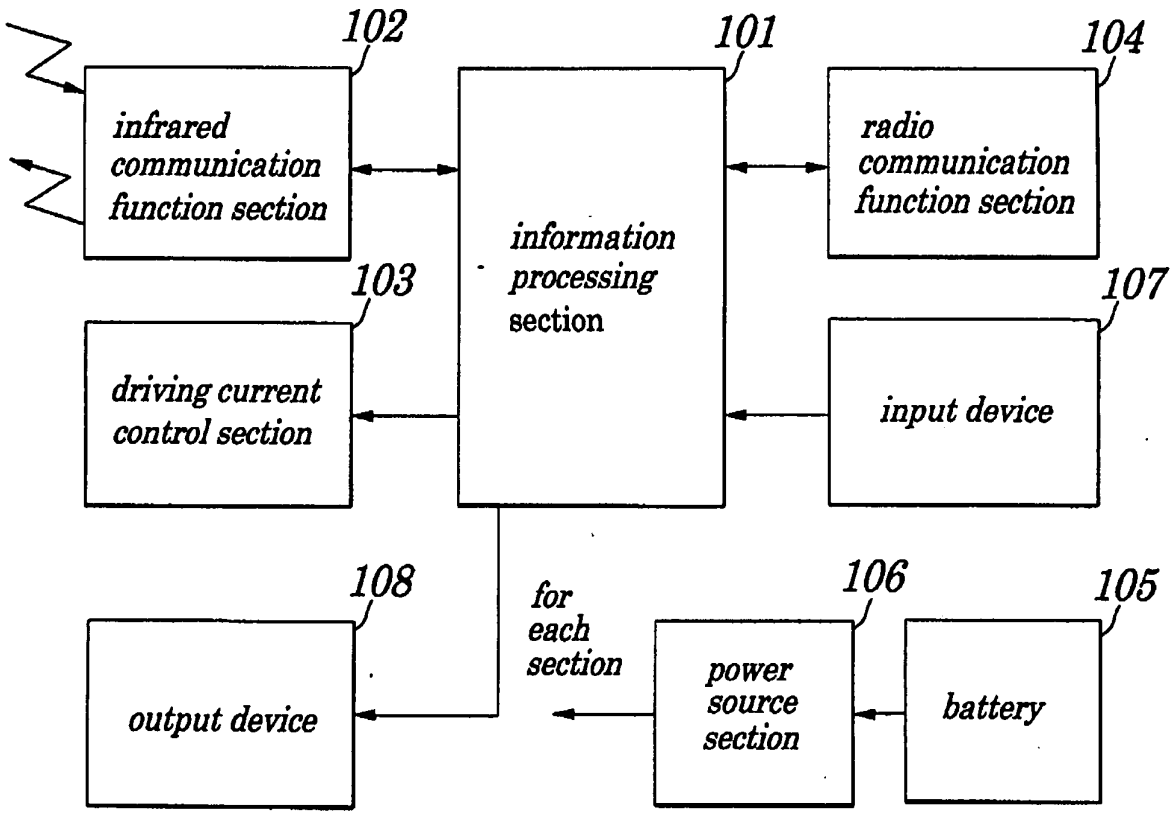

102
infrared communication function section
101
information processing section
104
radio communication function section
103
driving current control section
107
input device
108
output device
for each section
106
power source section
105
battery

FIG.2

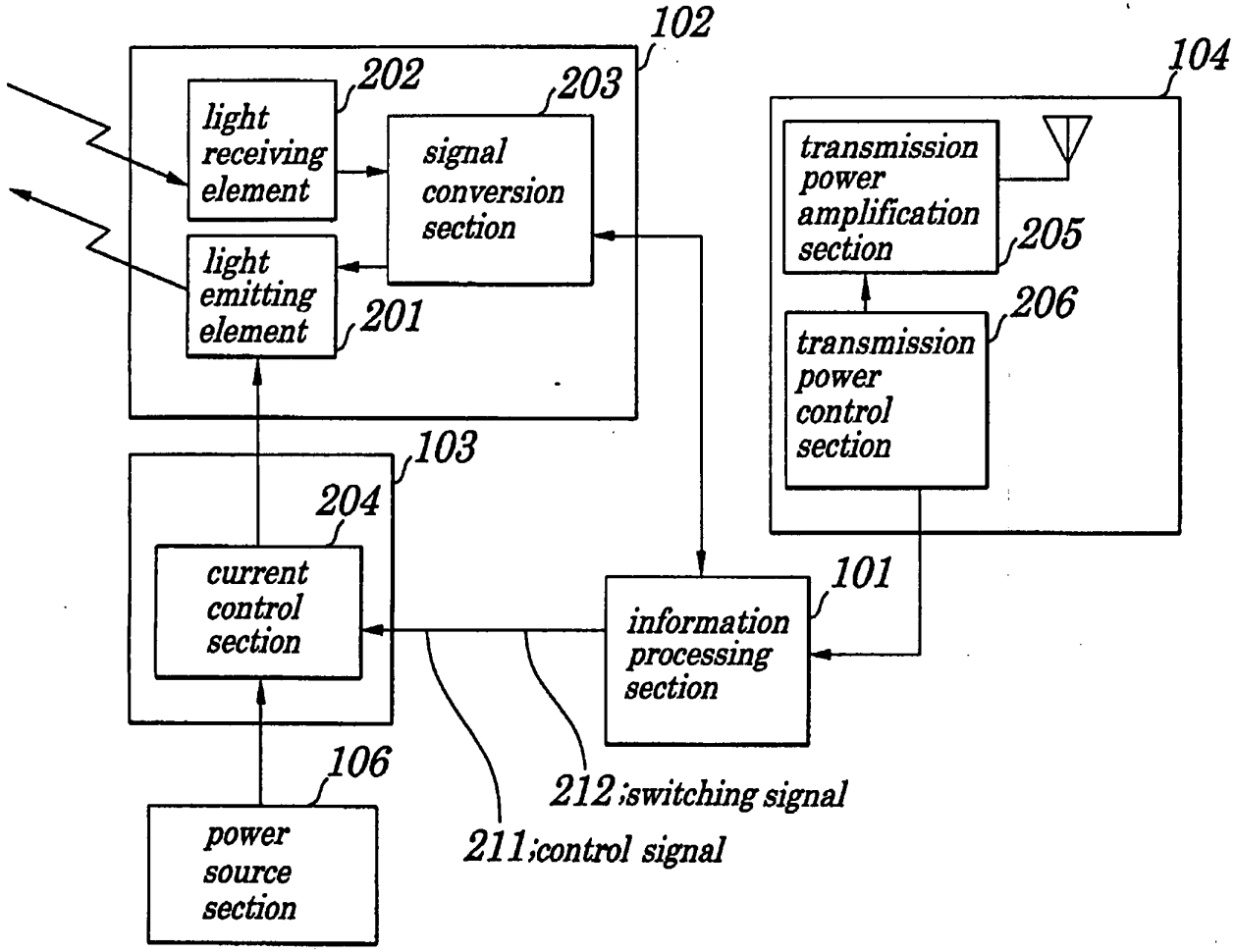

102
104
202
203
light receiving element
signal conversion section
transmission power amplification section
205
light emitting element
201
206
transmission power control section
103
204
current control section
101
information processing section
106
power source section
212;switching signal
211;control signal

FIG.3

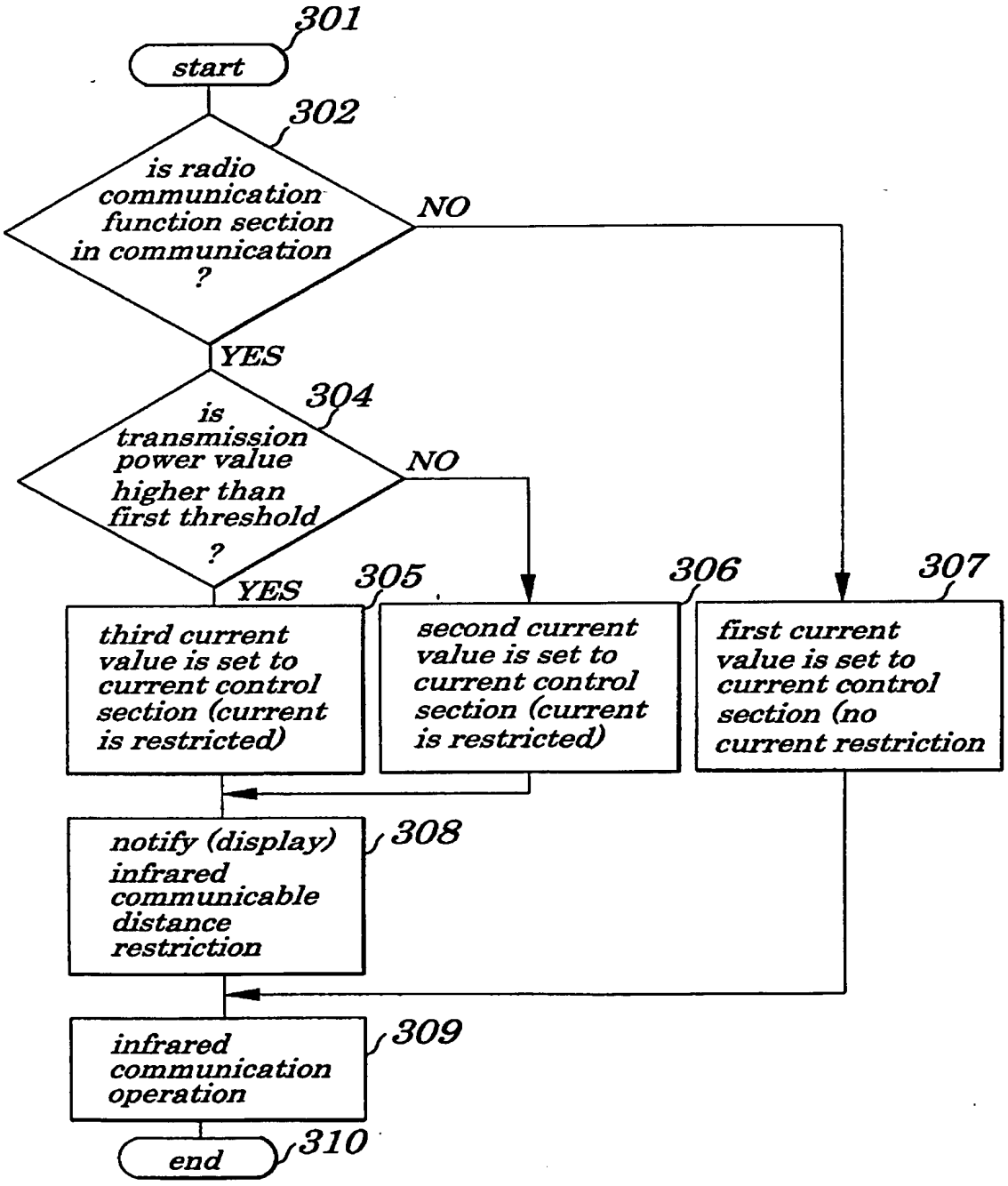

301
start
302
is radio communication function section in communication ?
NO
YES
304
is transmission power value higher than first threshold ?
NO
YES
305
third current value is set to current control section (current is restricted)
306
second current value is set to current control section (current is restricted)
307
first current value is set to current control section (no current restriction
308
notify (display) infrared communicable distance restriction
309
infrared communication operation
310
end

FIG.4

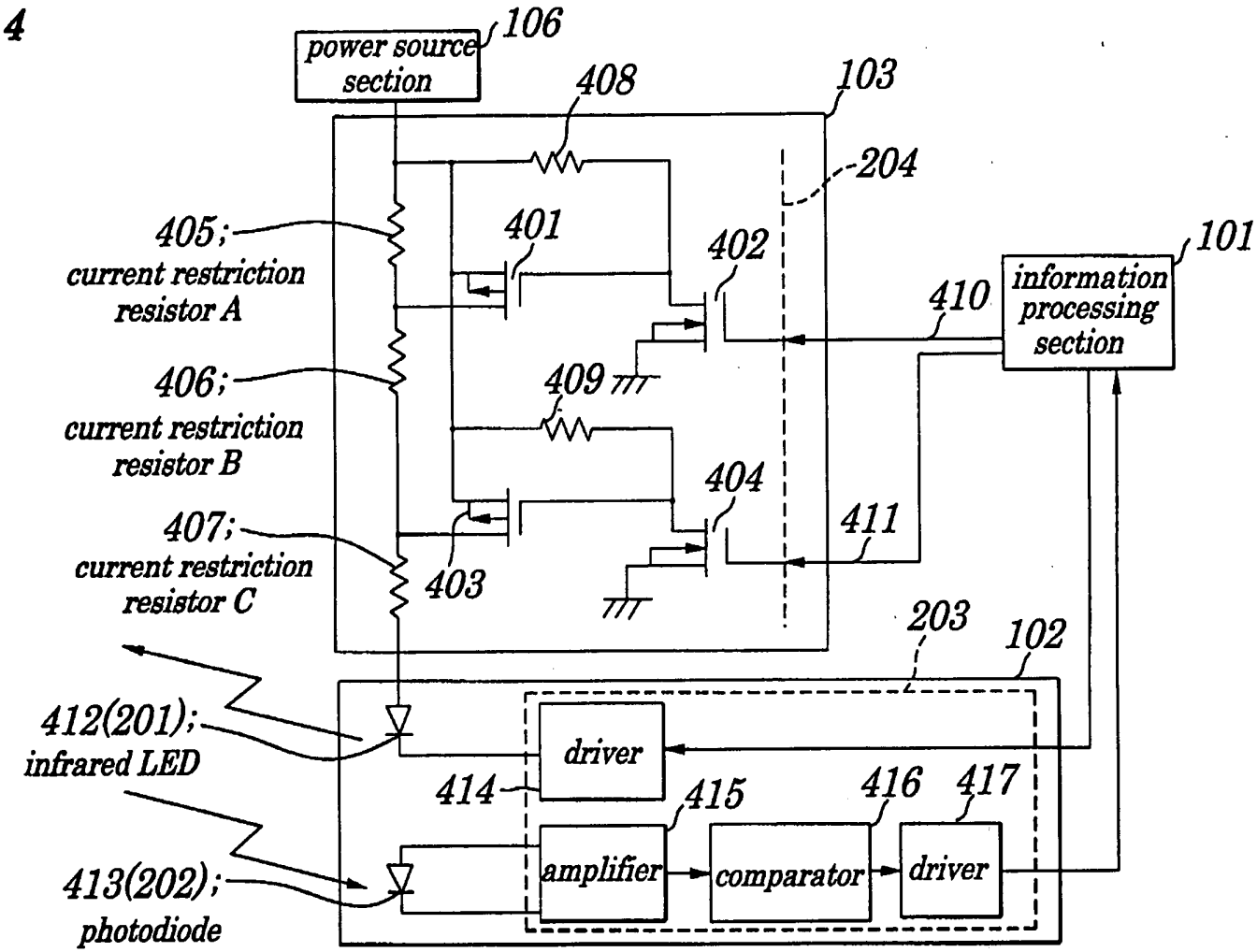

power source section
106
408
103
204
405;
current restriction resistor A
401
402
101
information processing section
410
406;
current restriction resistor B
409
404
411
407;
current restriction resistor C
403
203
102
412(201);
infrared LED
driver
414
415
416
417
amplifier
comparator
driver
413(202);
photodiode

FIG.5

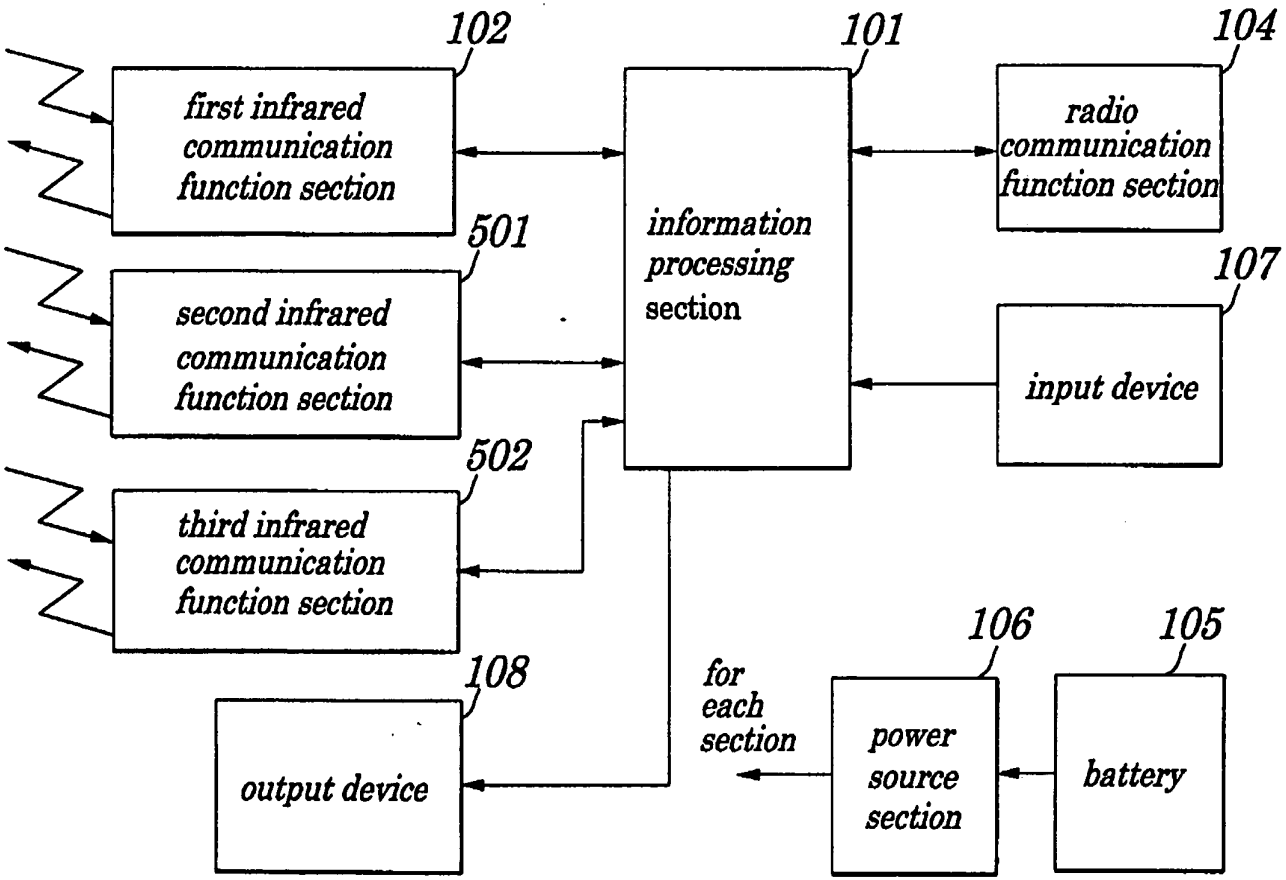
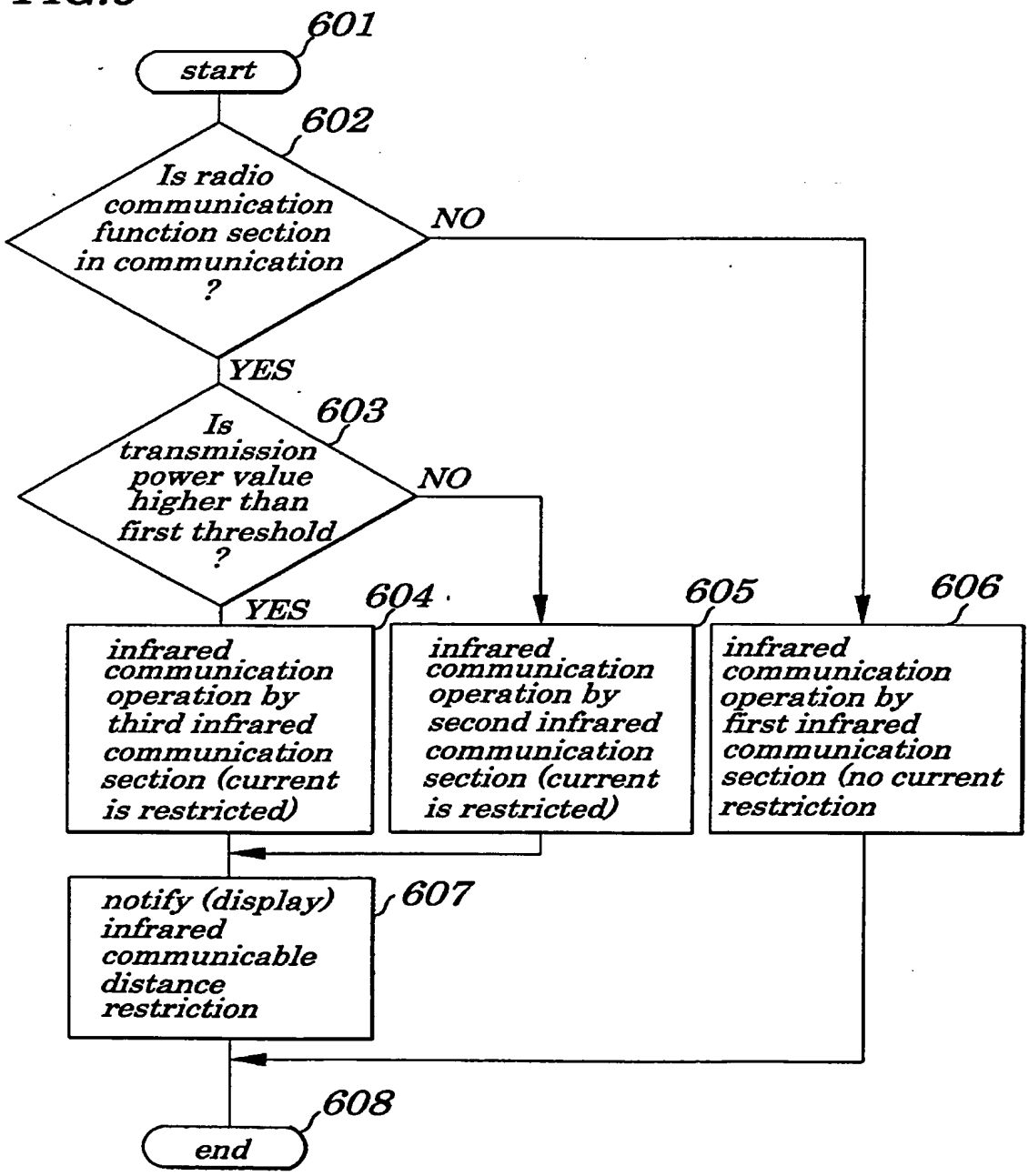

102
first infrared communication function section
501
second infrared communication function section
502
third infrared communication function section
108
output device
101
information processing section
104
radio communication function section
107
input device
106
105
for each section
power source section
battery

FIG.6


601
start
602
Is radio communication function section in communication ?
NO
YES
603
Is transmission power value higher than first threshold ?
NO
YES
604
infrared communication operation by third infrared communication section (current is restricted)
605
infrared communication operation by second infrared communication section (current is restricted)
606
infrared communication operation by first infrared communication section (no current restriction
607
notify (display) infrared communicable distance restriction
608
end